AMENDMENTS TO THE CLAIMS

Listing of Claims

The following listing of claims replaces all previous listings or versions thereof:

1-17. (Canceled)

- 18. (Previously presented) An isolated and purified polypeptide comprising the sequence of SEQ ID NO:3.
- 19. (Previously presented) The isolated and purified polypeptide of claim 18, wherein said polypeptide is a fusion protein further comprising additional non-Vac14 sequences.

20-23. (Canceled)

- 24. (Currently amended) An oligopeptide of between [[10]]15 and about-30 residues, said oligopeptide comprising at least 10 consecutive residues of SEQ ID NO:3.
- 25. (Currently amended) The oligopeptide of claim 24, wherein said oligopeptide is 10, 15, 20, 25, or 30 residues in length.
- 26. (Currently amended) The oligopeptide of claim 24, wherein the number of consecutive residues is 10, 15, 20, 25, or 30.

27-32. (Canceled)

- 33. (Withdrawn) A method of identifying a subject at risk of developing diabetes comprising assessing the structure, function or expression of Fab1, Vac14 and/or Fig4 in cells of said subject.
- 34. (Withdrawn) The method of claim 33, wherein assessing comprises assessing expression.
- 35. (Withdrawn) The method of claim 34, wherein assessing expression comprises Northern blotting.

- 36. (Withdrawn) The method of claim 34, wherein assessing expression comprises quantitative RT-PCR.
- 37. (Withdrawn) The method of claim 34, wherein assessing expression comprises Western blotting.
- 38. (Withdrawn) The method of claim 34, wherein assessing expression comprises quantitative immunohistochemistry.
- 39. (Withdrawn) The method of claim 33, wherein assessing comprises assessing activity.
- 40. (Withdrawn) The method of claim 39, wherein assessing activity comprises measuring PI(3,5)P₂.
- 41. (Withdrawn) The method of claim 40, wherein assessing activity comprises measuring PI(3,5)P₂ turnover.
- 42. (Withdrawn) The method of claim 40, wherein assessing activity comprises measuring PI(3,5)P₂ steady state levels.
- 43. (Withdrawn) The method of claim 40, wherein assessing activity comprises measuring PI(3,5)P₂ synthesis.
- 44. (Withdrawn) The method of claim 40, wherein assessing activity comprises measuring PI(3)P.
- 45. (Withdrawn) The method of claim 39, wherein assessing activity comprises measuring protein kinase activity.
- 46. (Withdrawn) The method of claim 33, wherein assessing comprises assessing structure.
- 47. (Withdrawn) The method of claim 46, wherein assessing structure comprises nucleic acid sequencing.
- 48. (Withdrawn) The method of claim 47, wherein sequence comprises PCR.
- 49. (Withdrawn) The method of claim 47, wherein sequence comprises RT-PCR.

- 50. (Withdrawn) The method of claim 469, wherein assessing structure comprises measuring antibody binding.
- 51. (Withdrawn) The method of claim 50, wherein measuring antibody binding comprises, RIA, ELISA, Western blot or immunohistochemistry.
- 52. (Withdrawn) The method of claim 46, wherein assessing structure comprises high stringency nucleic acid hybridization.
- 53. (Withdrawn) The method of claim 33, further comprising obtaining a cell from said subject.
- 54. (Withdrawn) The method of claim 53, wherein said cell is a kidney cell, a liver cell, a leukocyte, an adipocyte, or a muscle cell.
- 55. (Withdrawn) The method of claim 53, further comprising subjecting said cell to stress prior to assessing expression or activity.
- 56. (Withdrawn) The method of claim 55, wherein stress is osmotic stress.
- 57. (Withdrawn) The method of claim 55, further comprising subjecting said cell to hormonal stimulation prior to assessing expression or activity.
- 58. (Withdrawn) The method of claim 57, wherein said hormonal stimulation is insulin stimulation.
- 59-60. (Canceled)